

10-1-1978

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#### Recommended Citation

(1978) "Irish H & V News," *Building Services News*: Vol. 17: Iss. 12, Article 1.

doi:10.21427/D7HM7Q

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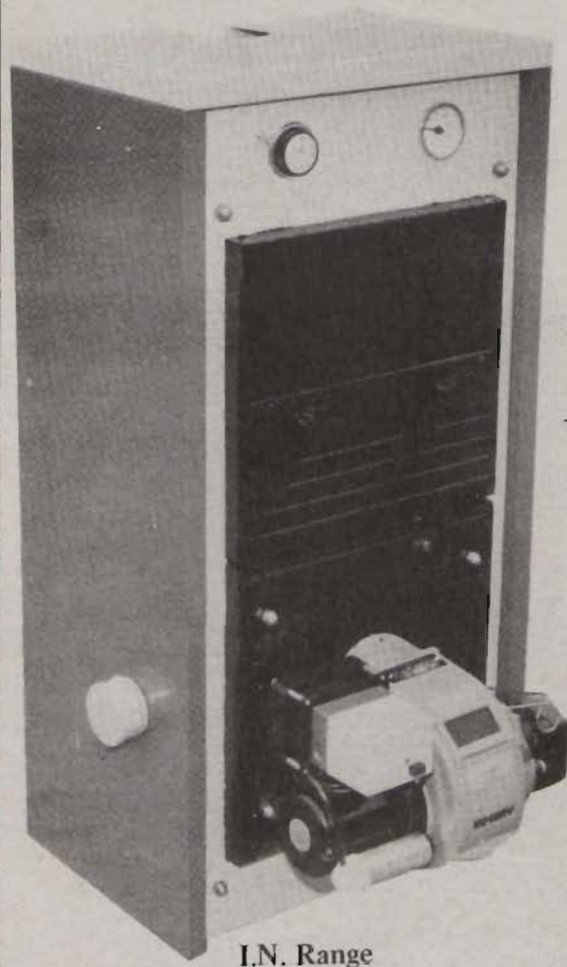


  
**HEVAC LTD.**  
Heating · Ventilation · Air-Conditioning  
Dublin and Cork

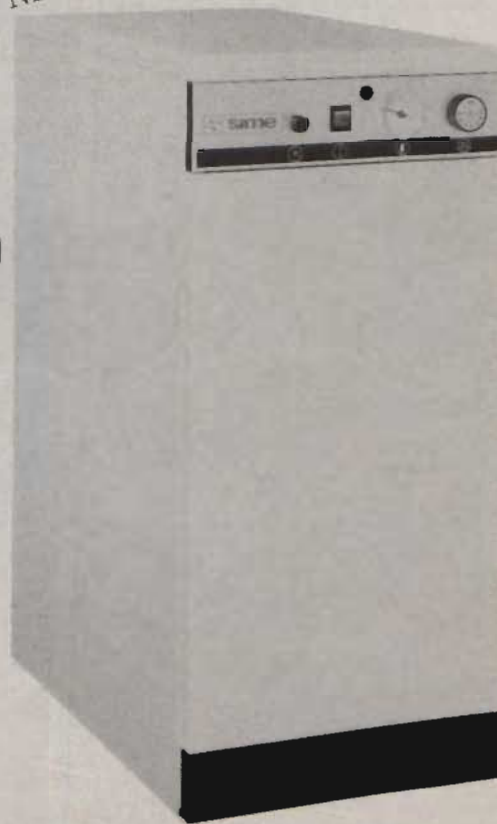
IRISH  
**HV**  
&  
**NEWS**  
OCTOBER 1978



# **RIO** - THE MOST SUCCESSFUL DOMESTIC BOILER IN IRELAND



NOW INTRODUCE THEIR  
NEW HOUSEHOLD RANGE.



- ECONOMICAL
- RELIABLE
- CORROSION-PROOF
- EFFICIENT
- EASY MAINTENANCE AND CLEANING
- ELEGANT
- LONG-LASTING

Like the rest of the famous RIO range this is a cast iron sectional boiler thus retaining the durability and long life characteristics of cast iron.



For further information contact:

**Hevac Limited**

Heating Ventilating and Air Conditioning

Head Office:—Lomond Avenue, Fairview, Dublin 3.  
Phone: 373796/374646 Telex: 5827 Grams: Hevac.

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**sime**spa



# HEVAC - WHERE CUSTOMER CONCERN COMES FIRST



From planning the construction of jumbo jet hangers, organising an air line operation in Nigeria as Catering Manager of Aer Lingus and Managing Director of a successful computer company, John A. Hoey sits into the chair of Chief Executive at HEVAC Ltd with a world wide experience both in commercial and the engineering environments.

It was earlier this year that John was appointed by HEVAC to take over the company with a view to revitalising it for the changing technology of the eighties, a task he welcomes as a challenge. Because of his history of challenges, which involved many diverse roles, HEVAC can be confident that by the eighties not only will John and his team succeed, but their customers will know that they are dealing with a company that rates customer concern as their number one priority.

The immediate effect that HEVAC customers will observe is the major restructuring that is taking place within the company in relation to their marketing and servicing policies. To this end John has set about the establishment of a permanent base for HEVAC in the Munster area with the acquisition of new premises in Cork city and the appointment of new personnel.

## MUCH NEEDED SERVICE

The explanation for this move, according to John, is that he sees HEVAC as the largest supplier of equipment to the domestic, industrial heating and air conditioning trade in Ireland. "We have a very wide range of products in each division," he says, "and now we have the opportunity, particularly with the steady growth of the Irish market, to expand and provide a better and much

*John A. Hoey, B.E., M.B.A., C.Eng., M.I. Mech. E.  
Chief Executive, Hevac Ltd.*



**"The need to ensure the proper service for all customers, whether they be merchants or contractors, who come to Hevac is always uppermost in the company's mind"**

needed service to the Irish industry."

It is this need to create a better service for the Irish market as a whole that made John realise the company was too Dublin based. "You just cannot sell from your Dublin office," he explains, "you must go into the field if you really want to provide a first class service to your customers and that will be our policy between now and 1980."

In addition to establishing themselves in the Munster area with their base in Cork, HEVAC have already appointed new sales representatives and are in the course of appointing two new engineers for the Cork and Limerick areas. This together with the creation of a stores facility in Cork will ensure a faster delivery service.

### SALES DIVISION

HEVAC recognise that with such a wide range of internationally acknowledged products available to their customers, the strengthening of their sales division was needed to give the company a more effective sales coverage. "We believe that our economy is going to expand and stabilise, therefore we must be ready to service that economy".

It is this belief in the future of the country's economy that has encouraged



*Majella Flaherty, Switchboard and Receptionist.*

HEVAC to bring about within their sales division a new approach to coping with various sections of their product ranges. They have recognised how difficult it is for one person to deal effectively with both the domestic and industrial sides of the business. "Therefore" John explains "we have faced up to this situation and accepted that there are in fact two separate markets — domestic and industrial — and re-organised our sales representatives accordingly".

### OVERLAP

While this might mean in simple terms that the representatives will deal only with their own section of the market, John points out that they will in fact work and overlap as necessary to provide the proper service to the customer, "while they are departmentalised they will not be compartmentalised" he says.

HEVAC are confident that they have the best possible range of products available on the market today. All the products are recognised within their own countries and most of them enjoy a major share of their respective markets. HEVAC intend to ensure that the same criteria will apply here in Ireland.

This policy of diversification by HEVAC shows their perception of modern market trends. By dealing in such a wide range of products from domestic boilers, steam boilers, chimney stacks, packaged air cooler units for computer rooms, chillers, coolers and water towers for industry, they are thus ensuring themselves against any fluctuation in any particular market. "In other words," as John says, "all our eggs are not in one basket."

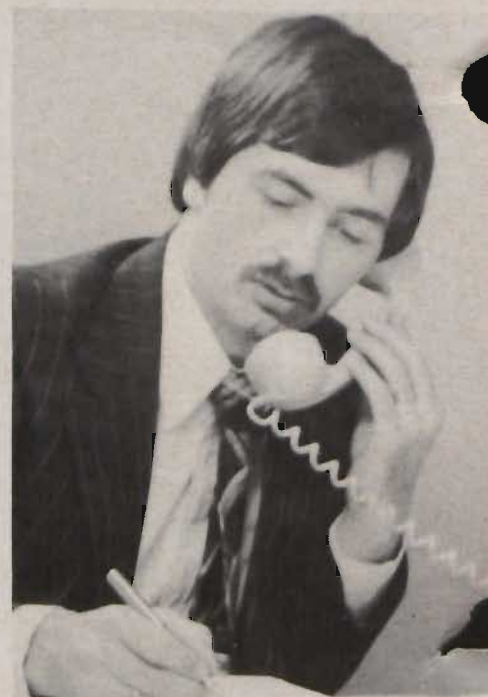
### UNDER ONE ROOF

The need to ensure the proper service for all customers, whether they be merchants or contractors who come to HEVAC, is always uppermost in the company's mind. John says, "we want our customers to know that when they deal with HEVAC we will ensure as far as possible that all their requirements will be met by our staff and to this end we are constantly on the lookout for other products to fill any gaps that are in the market. In short we hope that all their needs will be under the one roof."

As proof of HEVAC's intentions they have just recently acquired the Nu-Way Benson space heaters to fill what they consider a major gap in their product range. Another important addition has been the acquisition of Denco-Miller who specialise



*Pat Conroy, Company Accountant.*



*Brendan Newham, Credit Controller.*

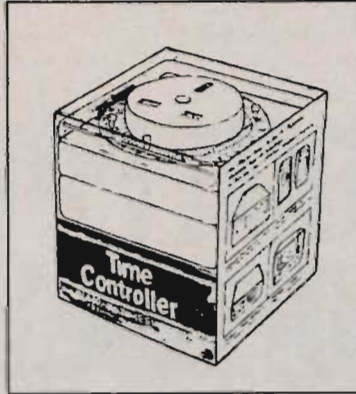


*Ken Keating, Assistant Accountant.*



# Introducing TimeController

The new plug-in timeswitch from Smiths Industries that your customers will find dozens of ways to use every day.



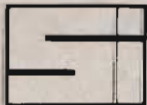
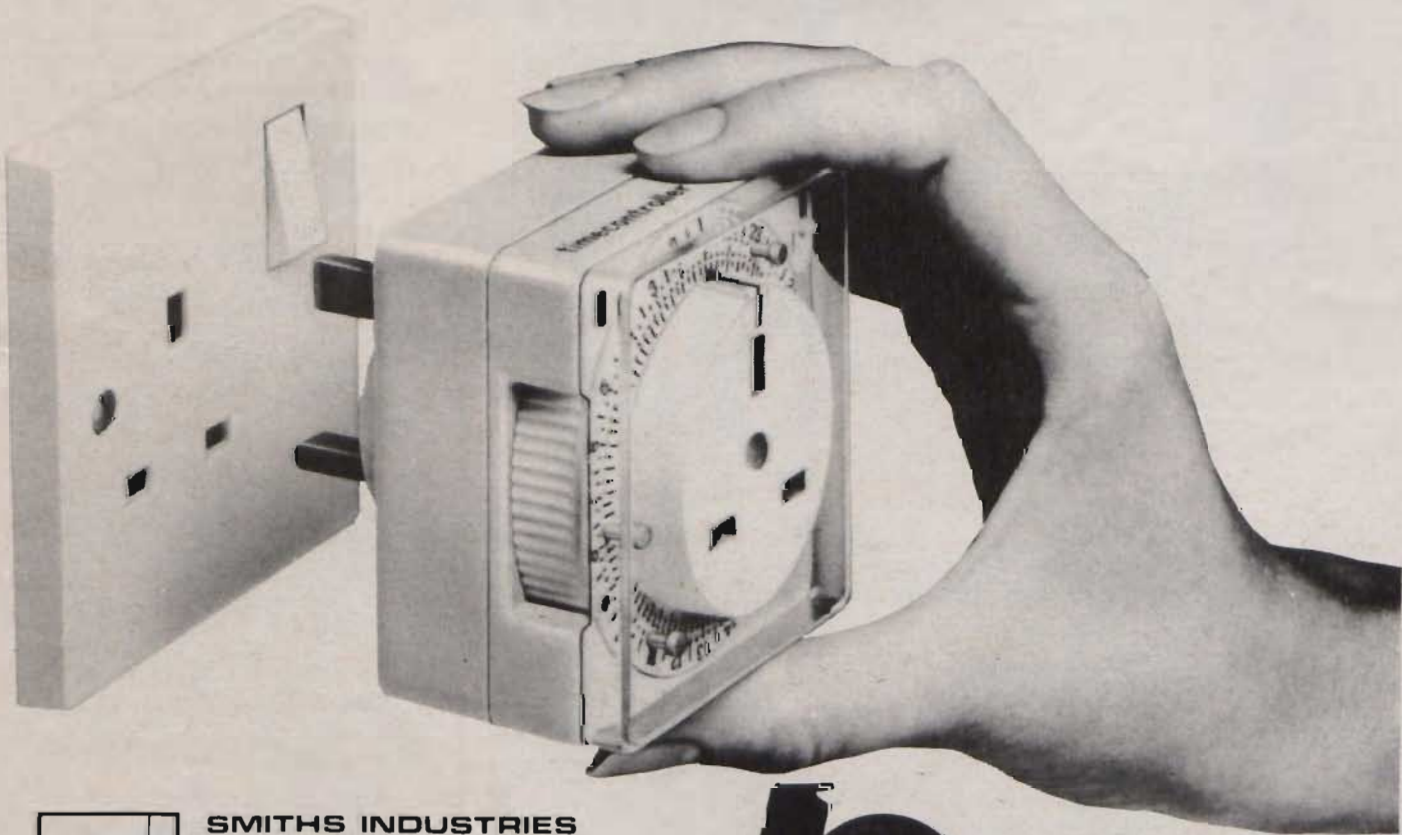
TimeController is a quality product with outstanding packaging designed to make an impact at the point-of-sale.

An intensive research programme has ensured that TimeController has all the features people want:

*Plugs-in direct. Compact, modern styling. White, to complement home decor. Numerous on/off programmes for maximum flexibility. Operates almost any electrical appliance.*

TimeController is the most advanced plug-in time-switch on the market. It has already achieved big sales across Europe and looks set for a great U.K. success with the Smiths Industries reputation behind it.

Take this opportunity to increase your timeswitch sales and profits; order today from your usual wholesaler or contact us for further details.



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TIME CONTROLS

Smiths Industries Time Controls, Waterloo Road, London NW2 7UR



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Heating Ventilating and Air Conditioning





# THE INCH THAT PUTS US MILES AHEAD OF CONVENTIONAL CHIMNEYS.

Between the two stainless steel walls of a Selkirk chimney is an inch of insulation.

But it's no ordinary insulation. It's equivalent to 17" of brick.

That's what makes a Selkirk chimney so much more efficient than an ordinary chimney.

It means that the inner wall will heat up in seconds. Creating an even, natural draught that gets the most out of the fuel.

Efficient combustion also means there's less chance of soot being formed.

(Even if it does, the smooth inner surface will give the soot little hope of depositing itself.)

The insulation helps prevent condensation forming too.

Condensation that can rot conventional steel or brick chimneys.

And, as if all that wasn't enough, Selkirk chimney and gas vent sections simply lock together with an 1/8th turn.

Making installation extremely quick and easy.

And, being the largest manufacturer of



factory-made chimneys in the world, we naturally have a range to match.

But we also have the advantage of our own in-house design team to make sure you get the right chimney in the right place.

So, whatever you need to know in chimney terms, just post the coupon below.

Because it's one subject on which we're miles ahead of most people.

**Take our advice.  
Post the coupon.**



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*IH&VN 20/10.*



**SELKIRK METALBESTOS**

A Division of Wallace Murray Limited

Chimneys stacked  
with advantages.

INSTALLATIONS IN: AUSTRALIA, BELGIUM, CANADA, EIRE, FRANCE, GERMANY, HOLLAND, ITALY, JAPAN, MIDDLE EAST, SCANDINAVIA, SOUTH AFRICA, SPAIN, UK, USA.



## MEETING DEMAND

HEVAC will also be introducing a wide range of fittings, valves, gauges, etc, to the domestic market and they are confident that this continual researching for new products will enable them to meet future expansion to the obvious benefit for all their customers.

Yet, despite all this restructuring, John is quick to point out that unless you have the right personnel many of your best efforts will be wasted. In this aspect though, John has no fears, he is confident that the blend between long serving members and the addition of new members of the staff has brought to HEVAC the right blend of experience, technical knowledge and above all a new enthusiasm which he stresses is more important than the individual items of equipment.

## RECIPE FOR SUCCESS

HEVAC intend to be effective in the various geographical areas already mentioned and will constantly be updating their plans with regard to product ranges. "We have the very best of products," John says, "we will be very competitive price wise in some items and a little more expensive in others. But if we continue to combine good products, reasonable prices, effective dedicated service to our customers from the salesmen, administration staff, stores, technical people, dispatch and after sales service, then I am happy that we have the right recipe for success. My job is to ensure that we get it."



*Lynda Doyne and Mary O'Meara, members of the typing pool.*



# All Domestic Requirements Housed Under One Roof

As well as being the oldest department within the company, Hevac's Domestic Division is also the largest and throughout the years has developed an unrivalled reputation for confidence, good personal customer relationships and the most important criteria of all for their success, the assurance for always

being known to give a fair deal.

Merchants and contractors are assured that all their requirements in the domestic range are housed under the one roof at Hevac. The company recognises that the domestic side of the business can be the most demanding and no efforts are spared to



*Gordon McCabe, Domestic Division Manager.*



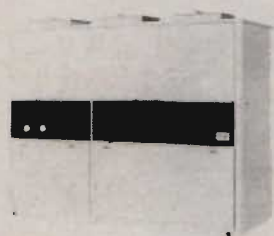


# CLIREF PACKAGED LIQUID CHILLERS



## **PLCA 3 - PLCA 13.**

Small air cooled liquid chillers.  
Cap. 7,000 - 40,000 Kcal/h.  
1 or 2 comps. Axial or centrifugal fans.



## **RLA 7C - RLA 30C.**

Cap. 17,000 - 86,000 Kcal/h.

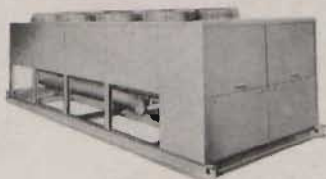
## **RLA 3H - RLA 6H.**

Cap. 7,500 - 16,000 Kcal/h.

Fully packaged air cooled centrifugal fans for indoor installation and suitable for heat reclaim.

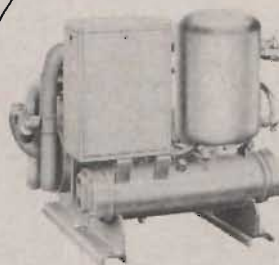
## **RLA 16 DH - DRLA 76 DH.**

Packaged air cooled chillers.  
Cap. 40,000 - 250,000 Kcal/h.  
1, 2 or 3 comps. - 2 circuits.



## **DRLA 85H - DRLA 170 H.**

Packaged air cooled chillers.  
Cap. 230,000 - 500,000 Kcal/h.  
3 or 4 comps - 2 circuits.

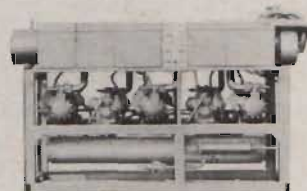


## **PLCW 3 - PLCW 16.**

Water cooled liquid chillers.

Cap. 8,000 - 60,000 Kcal/h.

1 or 2 comps. - 1 or 2 circuits.

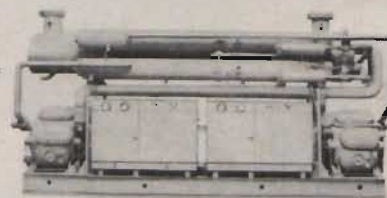


## **DRLX 84 - DRLX 216.**

Water cooled or split air cooled chillers.

Cap. 200,000 - 650,000 Kcal/h.

3 to 6 comps - 2 circuits.



## **RO 15 - DRO 120 - 2.**

Water cooled or split air cooled chillers.

Open type comps — direct drive.

Caps 35,000 - 410,000 Kcal/h.

1 or 2 comps - 1 or 2 circuits.

One of the most comprehensive ranges of liquid chilling equipment available on the Irish market today with full after sales service back-up. For further information contact



Sole Irish Distributors

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maintain all the top products and the leading market sellers.

If a merchant or contractor can visualise the complete range for a domestic heating system ie, oil tank, fuel gauges, valves, burner, boiler, thermostat, oil piping, circulating pump, hot water cylinder, expansion tank, insulation, flue, etc, then he can feel confident that by coming to Hevac all his requirements will be attended to by a willing, qualified and experienced staff.

Hevac with their policy of customer concern recognise that their customers are always looking out for new developments and popular market sellers, to cater for this need they see for example the small heat exchanger, attached to the boiler for the constant provision of hot water and which in turn eliminates the use of piping to the hot water cylinder, as the future leading seller in Ireland. The system is already a leader on the European and UK markets.

### PROMPT ATTENTION

Because so many of Hevac's customers tend to regard the company as the country's leading supplier of domestic ranges they have found the need to carry large stocks to satisfy the fluctuating demands of their satisfied customers and with the willingness of their able staff and an efficient transport service the customer in turn is assured of speedy and prompt attention.

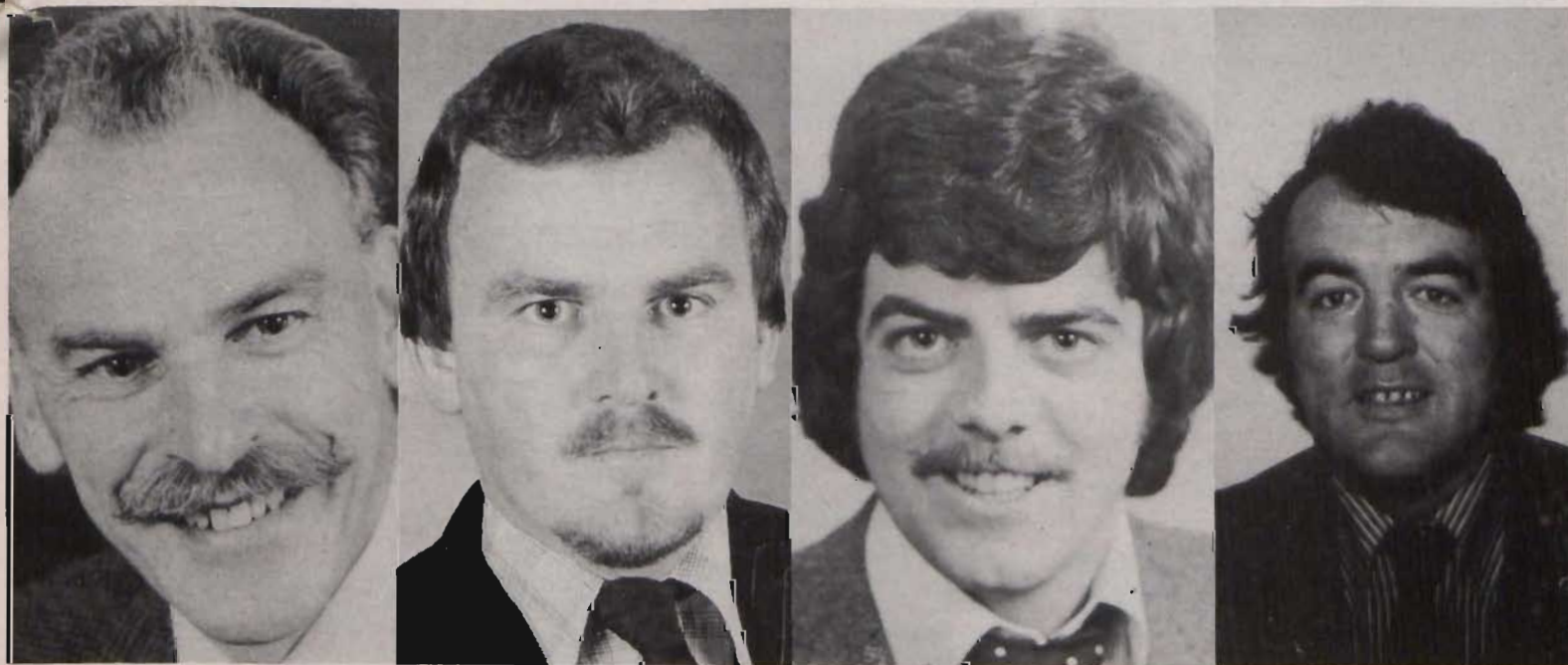
Gordon McCabe, who has just joined Hevac as the Manager of the Domestic Division brings almost 12 years of top experience and technical know-how to the already expanding division. Gordon has worked in the past for specialists within the trade such as Hammond Lowe, Runtalrad Ltd and Unimack Ltd Distribu-

tors, and, along with Frank Loughran, the Sales Office Manager, they offer a top quality service and a full back-up team to ensure the maximum efficiency to the customer.

The rest of the Domestic Division team is made up of sales representatives, Havilland Rennier, North Leinster; Liam Tynan, West of Ireland; Liam Woodgate, Munster; and Kevin Dunne, South Leinster.



*Frank Loughran, Sales Office Manager.*



*Left to right: Havilland Rennier, Representative, North Leinster; Liam Woodgate, Representative, Munster; Kevin Dunne, Representative, South Leinster, and Liam Tynan, Representative, West of Ireland.*





*Left: Kevin Dunne, Sales Representative showing a domestic radiator to a customer and right: a Rio Domestic Boiler been loaded on to a truck for delivery.*

# Exclusive Agencies

Exclusive agencies held by Hevac's Domestic Division are as follows:—

# Rio

**RIO Boilers** — Cast iron sectional boiler, supplied with attractive fully insulated steel casing, which includes control panel of electric comprising of boiler thermostat, high limit stat and thermometer gauge. Rating ranging from 64,000 to 265,000 Btu/hr.

# Nu-Way

NU-Way Burners — Pressure jet oil burner supplied with Danfoss control box, and flexible oil lead. Fitted with a simple adjustable head to ensure optimum efficiency and fuel consumption rated from 60 to 200,000 Btu/hr.

# Virax

VIRAX Tools -- A complete range of superior pipe tools from Stillsons, pipe cutters, stocks and dies, through to the new <https://arrow.tudublin.ie/bsn/vol17/iss12/1>

1605 power threading machine. Virax tools are well established in this country and the Virax demonstration van is a regular visitor.

Pipe Insulation — Armaflex pipe insulation in 2 metre lengths to core tube from ½" to 4" readily available from stock.

# Smiths

**SMITHS Time Controls** — The Smiths range of programmes offers methods of time control for domestic heating systems from a simple control to the more sophis-

ticated models incorporating independent programming of hot water and central heating. Also available is the Timelite automatic security lamp. It switches itself on and off automatically, giving your home or office that occupied look and deters intruders.

# Worcester

WORCESTER Heatslave Boiler — Quiet oil fired boiler for kitchen installation, this

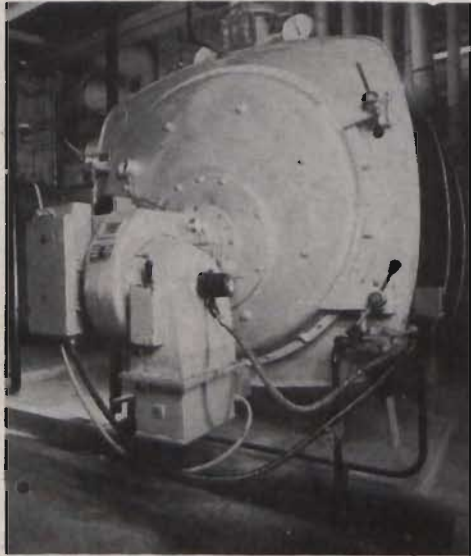


*Des Prendergast, Sales Service Engineer.*

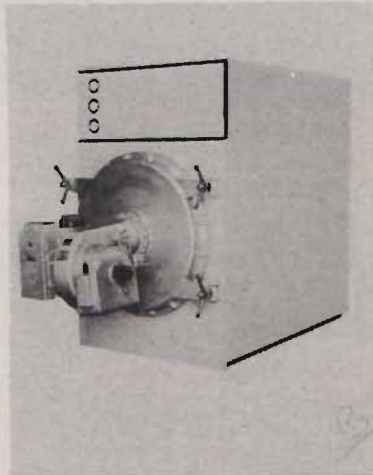


# SOME OF Allen Ygnis

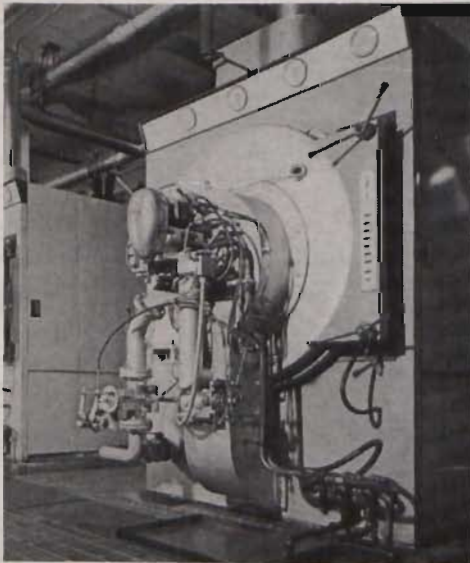
## BOILER INSTALLATIONS IN IRELAND



Allen Ygnis MK 111 Hot Water Boilers. Models 350/65 p.s.i. 6 – Installed at Setanta Development.



Allen Ygnis 707A Hot Water Combination Boilers. Installed at Dublin Corporation Swimming Pools.



Allen Ygnis 606A Hot Water Boilers. 4.Million BTU's Models @ 65 p.s.i. 2 – Installed at Cumberland House.



**As can be seen from the above list ALLEN YGNIS have the answers for most heating problems**



*Details available on request  
From*

*B Bracken or Tony Smith*

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**Phone:** 373796/374646 **Telex:** 5827 **Grams:** Hevac.



# Euramo-Pumps

## MX130A MX180A

Glendless variable output domestic circulators. Heads to 4.2 m (14 ft). Capacities to 3.5 m<sup>3</sup>/hr (13 gpm).



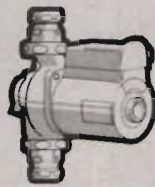
## 1030-1040

Glendless variable output circulators for medium size heating systems. Heads to 7.5 m (25 ft). Capacities to 10 m<sup>3</sup>/hr (37 gpm).



## 300-OC

Bronze variable output glendless circulator for hot water services. Heads to 3 m (10 ft). Capacities to 2.5 m<sup>3</sup>/hr (9 gpm).



## C.1000

In line glendless variable output circulators. Heads to 20 m (66 ft). Capacities to 100 m<sup>3</sup>/hr (360 gpm).



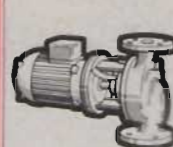
## C.2000

In line glendless variable output twin circulators. Heads to 20 m (66 ft). Capacities to 120 m<sup>3</sup>/hr (440 gpm).



## GIM-NEC-GET

Close coupled glendless in line pumps. Heads to 20 m (66 ft). Capacities to 65 m<sup>3</sup>/hr (240 gpm).



## LS/LR.1000

Vertical in line variable output glendless pumps. Heads to 30 m (99 ft). Capacities to 350 m<sup>3</sup>/hr (1,260 gpm).

## JS/JR.2000

Vertical in line variable output glendless twin pumps. Heads to 30 m (99 ft). Capacities to 700 m<sup>3</sup>/hr (2,500 gpm).

## PM-GM

Close coupled centrifugal for general pumping duties. Heads to 40 m (132 ft). Capacities to 200 m<sup>3</sup>/hr (724 gpm).

## MA.2000

Vertical multistage centrifugal self priming pumps. Heads to 60 m (197 ft). Capacities to 4 m<sup>3</sup>/hr (15 gpm).

## ME.2000

Vertical multistage centrifugal pumps. Heads to 100 m (328 ft). Capacities to 8 m<sup>3</sup>/hr (28 gpm).

## MV.2000

Vertical multistage centrifugal pumps. Heads to 270 m (886 ft). Capacities to 22 m<sup>3</sup>/hr (80 gpm).

## Exclusive Agencies

Exclusive agencies held by Hevac's Domestic Division are as follows:—

### Rio

RIO Boilers — Cast iron sectional boiler, supplied with attractive fully insulated steel casing, which includes control panel of electrics comprising of boiler thermostat, high limit stat and thermometer gauge. Rating ranging from 64,000 to 265,000 Btu/hr.

1605 power threading machine are well established in this country. Virax demonstration van is available. Pipe Insulation — Armaflex in 2 metre lengths to cover 4" readily available from

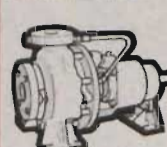
### Smiths

SMITHS Time Controls — range of programmes offers 1 time control for domestic heating from a simple control to the



## NF E 44121 NC-NI-NO

Standardised centrifugal pumps for chemicals and other liquids. To DIN 24256 & ISO 2858. Heads to 150 m (492 ft). Capacities to 1,800 m<sup>3</sup>/hr (6,562 gpm).



## PV.1000

Vertical coupled vertical centrifugal units for industrial applications. Heads to 140 m (462 ft). Capacities to 800 m<sup>3</sup>/hr (2,830 gpm).



**"This is just the tip of the iceberg, ask for details of our full range of Domestic and Industrial pumps"**



Available from  
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is a combination unit for mains fed domestic hot water plus central heating. Fitted with a built-in heat exchanger this unit eliminates the tank in the attic, copper cylinder and all associated long pipe runs. The Heatslave is delivered in one package completely pre-plumbed and pre-wired. Rating: 4 models ranging from 40 – 85,000 Btu/hr.

**Solid Fuel Appliances** – We offer the leading Irish manufactured Gerkros back boiler. Available in 16", 18" and 20", the boiler may be supplied complete with slow burning fire and overnight burning plate.

**Attic Insulation** – Fibre glass roof insulation available from 75mm to 125mm thickness and in rolls 16" or 48" wide.

## Piroil

**PIROIL Burners** – Model Smeraldo is a pressure jet oil fired burner and is supplied with control box solenoid valve and flexible oil leads. Rated to 140,000 Btu/hr. (Model Diamante 10 is the big brother of the Smeraldo and is rated from 140 to 300,000 Btu/hr).

## Worcester

**WORCESTER Danesmore Boilers** – Ideally suited for kitchen installation, Danesmore boilers are pressure jet, oil fired and designed to serve domestic heating and hot water. From one boiler, four alternatives are available: 1) The standard conventional flued boiler; 2) The standard conventional flued boiler plus programmer; 3) Boiler with flueless kit; and 4) Boiler with flueless kit plus programmer. Rating: 5 models ranging from 40 – 250,000 Btu/hr.

Together with the above mentioned products we stock the full range of ancillary equipment including Gunbarrel, Copper and Stainless Steel tube, Asbestos flue pipe and fittings, Compression fittings, Malleable iron fittings, Fire valves, Radiator valves, Filters, Copper cylinders, Oil storage tanks, in fact the full package of heating accessories.



Pat Moore, HEVAC's man in Cork, who can be contacted at Tel No: 021 509088.

et al.: Irish H & V News



Hevac Limited — INDUSTRIAL DIVISION

# Individual Customer Attention is the Key Factor

Brendan Bracken, Hevac's Industrial Sales Manager, believes that the personal contact and special attention to the different needs of clients is a prerequisite for a successful conclusion to any contract Hevac involve themselves in. With so many of the leading brand names to offer it is not surprising that the Industrial Division of Hevac is one of the success stories of the company.

Brendan Bracken himself plays no small

part in this success, for when he joined Hevac some two years ago his specialised policy of personal contact paid happy dividends as many of his former clients immediately sought him out again.

Having completed a course in heating and ventilating at Salford College of Higher Technology, Brendan has acquired over the years a sound practical knowledge of the industry, a point that has not gone unnoticed by many of the country's leading consultants and architects.

"My job is simply to sell boilers, burners and incinerators," Brendan says, "when I visit a consultant or an architect I imme-



Brendan Bracken, Industrial Sales Manager.





diately try to ascertain if there will be any special problems, ie design, installation etc. After the initial consultation, if they decide to place an order with Hevac I then ensure that a prompt quotation for the job is delivered within 24 hours."

This speedy service to detail for Hevac customers is undertaken by Brendan's assistant, Tony Smith, who handles all phone queries and is based full time at the Hevac offices.

Hevac offer a complete boiler house package which includes a burner, boiler, flue and instruments. They also offer with the package designing facilities for the complete installation of the system.

After the installation of any unit Brendan will see that the servicing department undertake the full commissioning of the project and is available for consultation if any unforeseen problems arise during the 12 month guarantee period.

As a result of the companies recent policy of promoting maintenance contract work, Brendan finds that the customer is increasingly returning to Hevac. "This is proof, if indeed we ever needed it, that Hevac's reputation for customer concern, especially in the after sales market, is now recognised as the best in the country," he said.

A list of Hevac's satisfied customers reads something like a page from a "Who's Who" in the industry. Among the most recent contracts awarded were: Setanta Development; the AIB project at Ballsbridge and Cumberland House where Alan Yngis hot water boilers were installed. The most recent contract awarded in the face of stiff competition was for six Sellkirk-Metalbestos chimneys at the new Beaumont Hospital.



*Des Carroll, Sales Representative, Industrial and Air Conditioning Divisions.*

arrangements which makes it possible to get the best out of the "marriage" of cast-iron with pressuration.

The front cleaning arrangement frees the space above the boiler for the passage of the pipes. This advantage, added to the general compactness of the boiler due to its very high exchange rate, means very reduced floor space in relation to the output delivered. Cleaning is, all the same, spaced out to the maximum, by reason of the high speed of the gases and the absence of vertical walls susceptible of catching the soot, which diminishes the risk of clogging.

These cleanings are very easy; there are only four doors, very accessible to manipulate; neither are there, as on boilers with vertical flue passes, numerous lids to open and close in difficult and uncomfortable conditions. This arrangement also makes it possible to clean very rapidly within 10 to 20 minutes after shut-down.

CM3P offers ease of mounting as well as dismantling, since they can be delivered in blocks, or in sections, according to the installation requirements. The shape and the reduced weight of these sections make them very easy to handle. The sealing between sections is ensured by a black-leaded asbestos cord inserted between each section, when assembling the sections. They are delivered with a wired control panel which

reduces to the strict minimum installation and wiring.

The water tube design principle guarantees an exceptional operation safety. This design in use for a long time in industrial boilers ensures both a high mechanical resistance and a very efficient thermic exchange.

The corrugated cylindrical combustion chamber, ensures a very high exchange rate: the cylindrical and corrugated combustion chamber without fins difficult to clean, as well as the flue passes have been designed for the use of modern pressurised burners. The horizontal multi-pass and intermediate pass flues allow a rational utilisation of the available pressure and of the development of the flame in the combustion chamber. The exchange surfaces (essentially of the tubular type) have been arranged with a view to ensuring and maintaining maximum efficiency. The distribution and circulation of water in the various sections have all been particularly studied and make possible excellent irrigation of the exchange surfaces and thus a high degree of homogeneity in heat transfer.

The very light weight of the roof installation and its homogenous distribution on the base, the water capacity reduced to the minimum and delivery by section make these boilers particularly well adapted for roof-installation.

## Nu-Way Benson

The Nu-Way Benson vertical oil-fired air-heater, Model WH88 has a pressure jet oil burner arranged for on/off operation, with a control system to BSS.799 fitted. This fully automatic system incorporates a photo-cell flame failure device. Manual reset overheat protection together with a warning light is provided. The fan and limit control ensure that no cold air is blown on start up. An override switch is fitted to give continuous operation for summer cooling.

The combustion chamber is manufactured from high quality heat resisting stainless steel with a large surface area and volume to ensure long life and low surface temperature. It incorporates a pressure relief door and flame viewing window.

The heat exchanger is manufactured from mild steel, of tubular construction designed to give maximum heating surface with lowest possible resistance to gas flow. The combustion chamber and heat exchanger are flexibly mounted to prevent distortion.

The outer casing is constructed in mild steel sheet, finished in a durable stove enamelled paint. A steel heat shield which is air cooled also forms part of the construction.

Warm air is provided by a centrifugal fan at the base of the unit and discharged through four nozzle outlets, each louvred,

## Exclusive Agencies

The exclusive agencies within the Industrial Division are: Nu-Way Burners; Chappee cast iron sectional boilers; Nu-Way Benson air heaters; Alan Yngis steam and hot water package boilers; Sellkirk Metalbestos chimneys (in stock from 5" to 14" but also up to 36"); Universal incinerators and Mather Platt unit heaters.

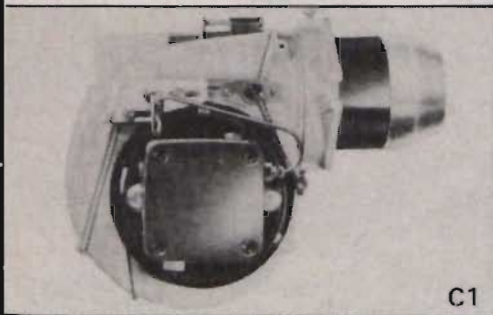
Available ex-stock are boilers up to 2 million Btu's and also the full range of Nu-Way Benson air heaters.

## Chappee

Carefully planned, tested over a long time, the CM3P boiler has several original  
<https://arrow.tudublin.ie/bsn/vol17/iss12/1>  
 DOI: 10.21427/D7HM7Q  
 HEVAC Ltd Supplement, October 1978

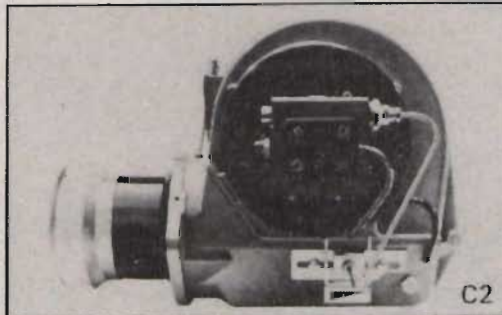


# A RANGE OF NU-WAY BURNERS



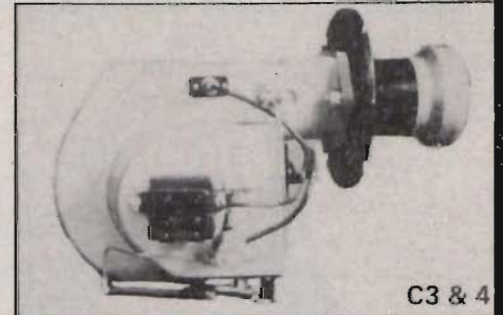
C1

Automatic, pressure jet, oil burner for operation on light oil (35 seconds Redwood No.1 at 38°C : 3 cSt at 38°C). Burner rated output 15–83 kW.



C2

Automatic, pressure jet, oil burner of unique hinged design. Burner rated output 59 – 256 kW.



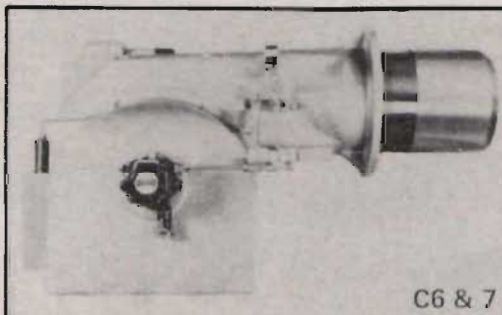
C3 & 4

Two automatic, pressure jet, oil burners with rated outputs of 147–732 kW. On/off or high/low/off operation available.



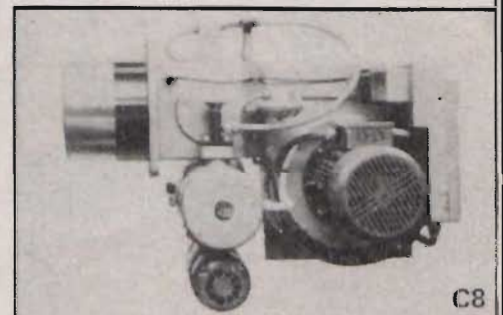
C5

Automatic pressure jet oil burner with rated output of 147–930 kW. High/low/off operation. Versions available for oil fuels up to 1000 seconds Redwood No.1 at 38°C (30 cSt at 82°C).



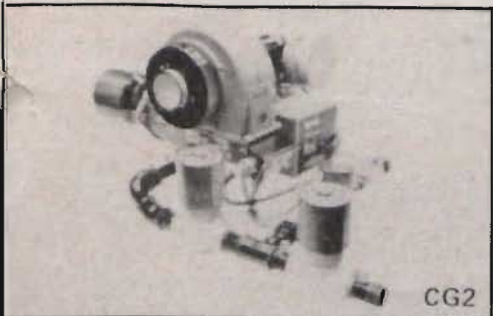
C6 & 7

Two automatic, pressure jet, oil burners for high/low/off and modulating operation. Burner rated output 147–2940 kW. Versions available for oil fuels up to 3500 seconds Redwood No.1 at 38°C (70 cSt at 82°C).



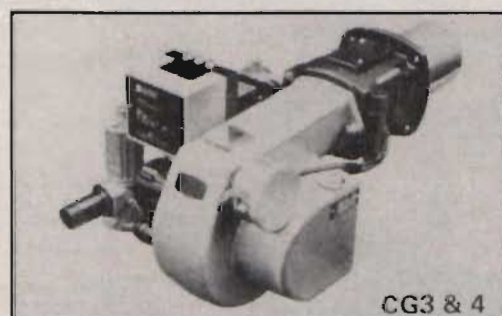
C8

Automatic, pressure jet, oil burner with rated output of 1800–4400 kW. High/low/off and modulating operation. Versions available for oil fuels up to 3500 seconds Redwood No.1 at 38°C (70 cSt at 82°C).



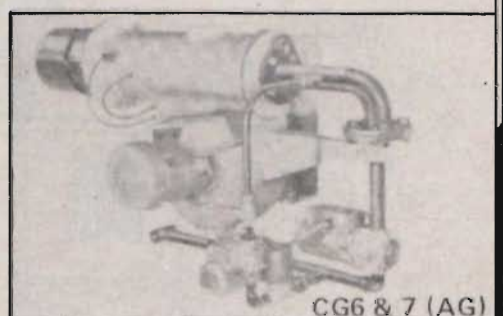
CG2

An automatic, blown, gas burner having a rated output of 35–147 kW (1.2–5.0 therm/h). Versions available for town's, natural or liquefied petroleum gas.



CG3 & 4

Two automatic, blown, gas burners using town's, natural or liquefied petroleum gas having burner rated outputs of 88–588 kW (3.0–25.0 therm/h). On/off or high/low/off operation available.



CG6 & 7 (AG)

A series of automatic, blown, gas burners using town's, natural or liquefied petroleum gas. Burner rated output from 588 – 2950 kW (20 – 100 therm/h). Operation may be of high/low/off or modulating type.



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# HEVAC-





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*For details contact:*



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**Lomond Avenue, Fairview, Dublin 3.**

**Tel: 373796/7/8, 374646, 378884, 374533, 379673.**

**Anglesea Buildings, Anglesea Terrace, Cork.**

**Tel: (021) 55988**





and capable of rotation giving full control of air distribution. Units for ducted installation are provided with a flange outlet.

## Selkirk Metalbestos

Selkirk Metalbestos prefabricated chimney systems are factory made for gas, oil, wood or solid fuel fired appliances with flue gas temperatures up to 540°C (1000°F) under continuous firing and up to 760°C (1400°F) short firing.

Chimney lengths and fittings are made entirely in stainless steel. The outer casing is weather proof and carries the structural load while the inner flue resists the highly corrosive products of combustion and is free to expand as the temperature rises.

A densely packed mineral insulation, only 25mm (1 in) thick, provides high thermal resistance; rapid stabilisation of the flue temperature and a low outer temperature over the whole surface of the pipes and fittings. A low external surface temperature under operating conditions permits installation with only 50mm (2 in) clearance to combustible materials. The smooth stainless steel inner flue heats rapidly to produce a strong draft which ensures that waste gases are exhausted and condensation of the harmful products of combustion minimised.

The chimney system is available in a graded range of seven sizes from 127mm (5 in) up to 355 mm 36" (14 in) to provide for a wide range of appliances of ratings up to 1.5 MW (1.25 million kcal/h, 5 million Btu/h). Three chimney lengths enable combinations to reach desired chimney heights or distances between two fixed points.

Chimney lengths and fittings lock together with an eighth of a turn and are secured with small locking bands. The joins provide a sturdy load bearing connection and have a smooth neat appearance for exposed interior applications.

Chimneys conform to the requirements of the Building Regulations (L 22). Also Kitemarked to B4543:1976. These approvals cover both internal and external application.

## Rio

The RIO C1N, 1N and 2N have been designed to operate with fuel-oil or gas, with perfectly balanced combustion and very high output.

Suitable for medium-power installations, the shape and volume of the combustion chamber have been designed to take all types of burner, fuel-oil or gas. The heating part,

with assembled elements, the fruits of our very long experience, are in special cast-iron, a great material highly resistant to corrosion, thus guaranteeing a robust and long life.

The combustion chamber takes maximum advantage of the radiation from the burner flame.

Gases from combustion are channeled through a thermic exchange circuit to the starting channel and the chimney.

Such rational use of the fuel results in very high yields. The front doors, which are hermetically sealed, are easily detached for inspection and complete chimney-sweeping of the boiler.

The two-colour plating, elegant and modern, is made of fired-enamel steel-plate. It is insulated and incorporates the controls.

The dual-purpose RIO C1N boiler presents the ideal solution for central heating and the production of hot water at a low running cost. It is a direct descendant of the 1N series and offers the same advantages and guarantees.

Equipped with a 4-way mixer sluice allowing for the partial or total exclusion of the heating circuit, our dual-purpose boilers are delivered fully assembled and factory-tested. This is important as it saves time during installation.

An elegant and functional panel includes the regulation and safety controls, for easy use.

Specially designed for inclusion in the

group, it produces abundant very hot water. Its accumulation capacity together with its large exchange surface enable it to supply heavy demand and to regain high temperatures very quickly, because it is permanently fed by the primary circuit, which irrigates it before feeding the heating network.

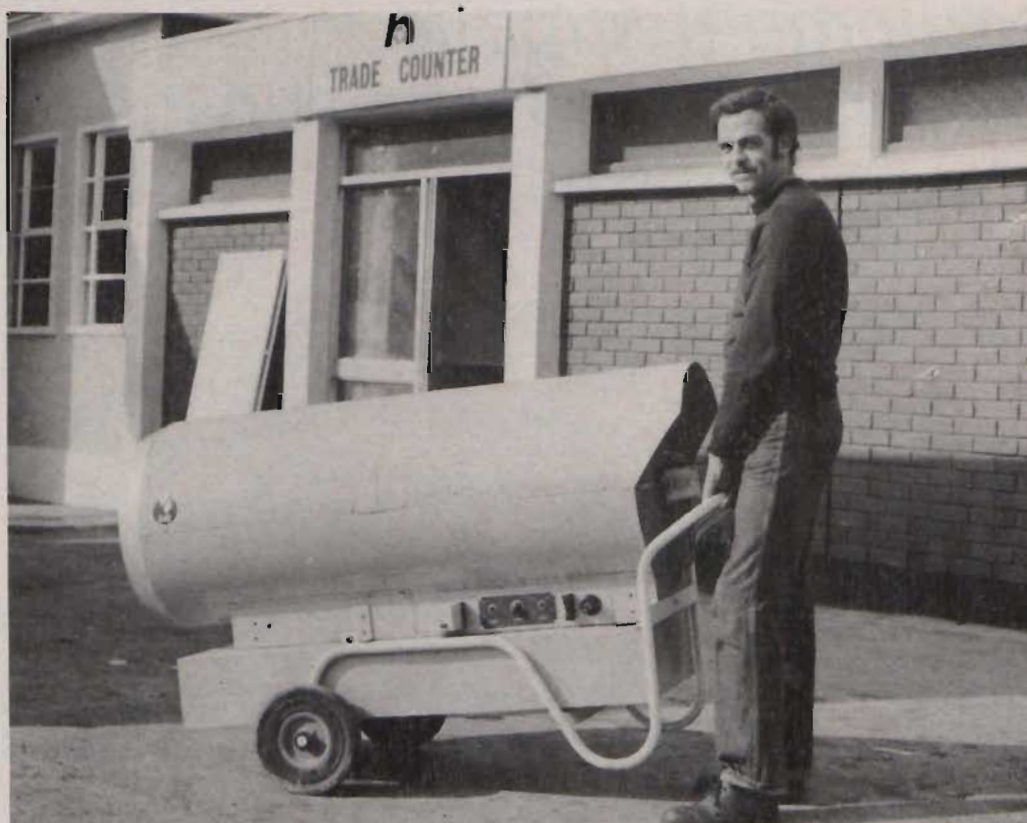
## Allen Ygnis

The Ygnis principle of combustion, which is a key feature of the Allen Ygnis range of steam boilers, gives four advantages: High efficiency from the excellent heat transfer; High output for a given volume and weight; Compactness saving space and reducing construction and installation costs; and Quick starting from cold without thermal stress.

The large pressurised combustion chamber allows the first two passes to be made within the chamber itself and the reversing flame causes the gases to enter and re-enter the high temperature flame zone many times before making the third and final pass through the smoke tubes. This flame reversal results in almost perfect combustion with maximum fuel utilisation.

The Ygnis boiler is of Swiss origin but has, for the past fifteen years been manufactured in the UK by Allen Ygnis Boilers Ltd.

Production and full testing of the com-



*Billy Campbell pictured with a Nu-Way Benson Heater arriving at the stores.*

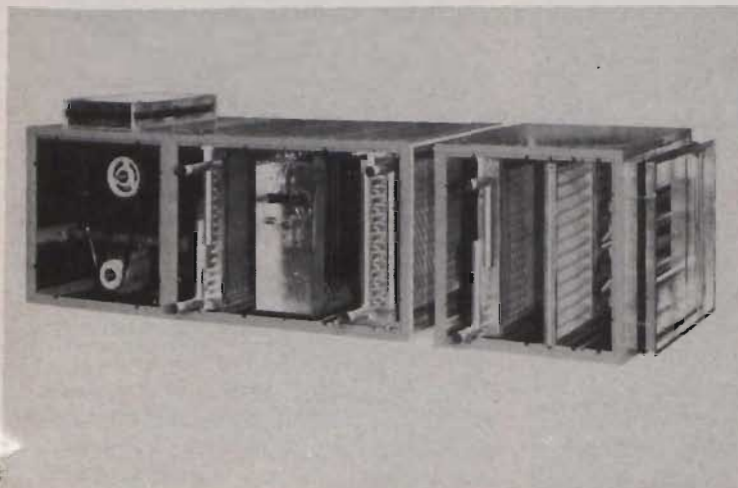


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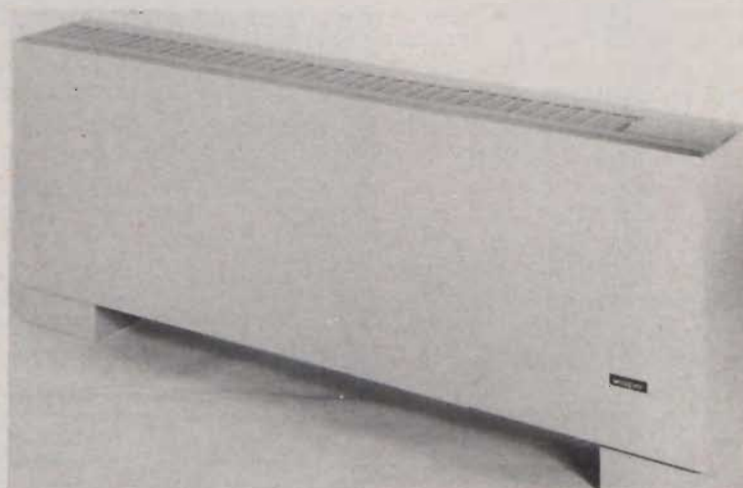
# Air Handling and Fan Coil Units. Unit Heaters and Water Re-Cooling Towers

## Air Handling Units



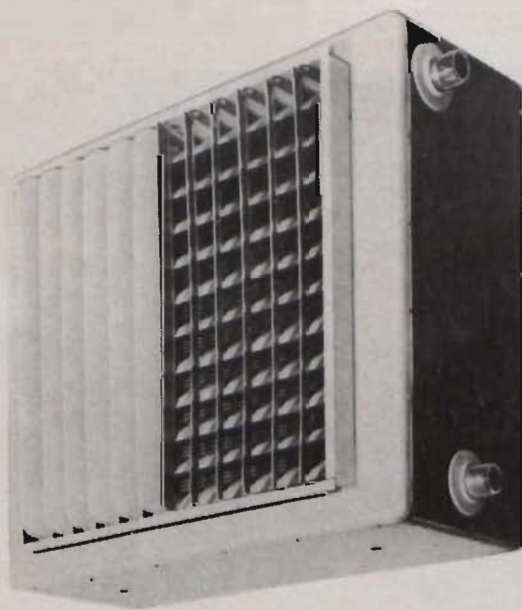
*Complete range of Air Handling Units – modular construction – all components slide out – complete access for service – 17 models – capacities from 1000 M<sup>3</sup>/h to 100,000 M<sup>3</sup>/h.*

## Fan Coil Units



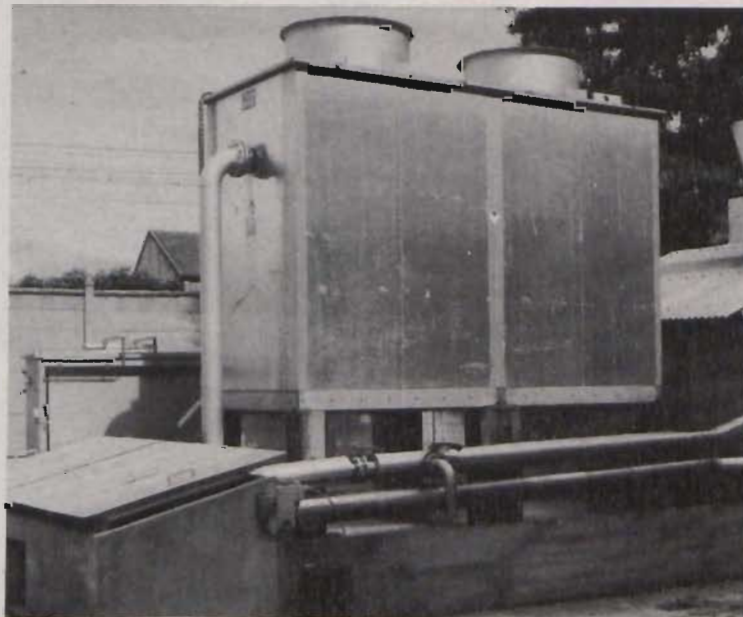
*7 sizes – 28 models – capacities from 200 M<sup>3</sup>/h to 1,400 M<sup>3</sup>/h – heating and cooling – low noise levels – floor or ceiling mounting.*

## Unit Heaters



*Units available for low, medium or high pressure hot water – also steam or electric heat – capacities from 10,000 Kcal/h to 250,000 Kcal/h – 30 models – very low noise levels – complete range of accessories available.*

## Water Re-Cooling Towers



*Capacities 4400 G.P.H. to 95,000 G.P.H. at 18°C wet bulb and 8°C range – Axial or centrifugal fans.*



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plete unit is carried out at the Allen Ygnis works at Tipton. The boiler incorporates in its design well tried and reliable burners and ancillaries.

Allen Ygnis, therefore, assume complete responsibility for the whole design including all the ancillaries which is in turn backed by a well trained service and after-sales organisation.

The boiler is of all welded construction, and consists of two concentric shells entirely closed at the rear end, the space between the two shells forming the water space in which large diameter flue tubes are fitted. The tubes are double banked at each side: the large area between the combustion chamber and the outer shell forms the steam space.

Spiral gas agitators are fitted in the flue tubes — by adjusting their overall length the flue gas temperature can be regulated. The front of the boiler is fitted with a hinged heat resistant refractory lined door, with the patent 'Ygnis' door seal. Due to the special wet-back construction expansion problems are eliminated. An anti-priming device is fitted beneath the boiler stop valve.

The cylindrical boiler shell is fully covered with insulation, consequently the radiation loss is very low. The complete boiler unit is enclosed in a sheet steel wrap round casing, plastic coated to provide a durable and lasting finish. The front door is painted in a heat resistant aluminium.

Forced draught pressure jet burners or forced draught rotary burners are supplied. These are designed to suit the Allen Ygnis boilers and after extensive tests to prove reliability. On/off, high/low/and modulating types are available for the various sizes of boilers. The burners are fully automatic in operation, the oil and air controls being actuated by thermostats in the flow header, and again, depending on the size of the boiler, they are able to burn oils up to 3,500 secs Redwood No 1.

## STANDARDS

Fully automatic controls are provided in accordance with the latest British Standard requirements, with photocell flame failure and electrical ignition, pre and post purge periods, etc.

Forced draught fully automatic enclosed gas burners can be supplied designed to suit the Allen Ygnis boiler. The gas burners are of the multiport pattern and are able to use normal town's gas, bottled gas or natural gas.

Forced draught fully automatic dual fuel burners can also be supplied.

The electrical control gear is situated in an enamelled cabinet mounted on the burner head or the side of the boiler dependant on boiler size, and contains all the necessary switch gear, burner control equipment, fuses, indicator lights, lock-out reset and ignition test button. The whole unit is pre-wired.

An electrically driven centrifugal pump is fitted at the rear of the boiler.

<https://arrow.tudublin.ie/bsn/vol17/iss12/1>

DOI: 10.21427/D4HM7Q  
Hevac Ltd Supplement, October 1978

# Excellent Combination of Expertise and Knowledge

Despite only turning their attention to the air conditioning side of the business some two years ago, Hevac have established for themselves a reputation for efficient customer service and with John D Sullivan as Manager of the Division and Brendan Gallagher as the Chief Applications Engineer, they are confident that this combination of expertise and knowledge of all aspects of the air conditioning market will shortly see the company as one of the foremost suppliers of equipment to the industry.

John, who has spent his whole working life in the industry, spent some time at the National College of London where he was awarded a diploma in fan engineering, refrigeration and air conditioning. His experience is well recognised having spent a number of years with many of the country's leading suppliers of air conditioning equipment. Having initially joined Hevac as their Services and Dealer Manager, John was appointed to his present position as Manager

of the Air Conditioning Division in 1977.

As with the other industrial divisions, John deals mainly with architects and consultant engineers but also maintains contact with Hevac's major accounts. Since Hevac have also recently diversified towards the processing industry John is confident that the air conditioning division of Hevac will shortly be on a par with the more established divisions within the company.

The partnership of John and Brendan, with their recognised talents throughout the trade, guarantees for the client a detailed examination of the best possible use that equipment chosen will be put to. "We make sure," John says "that the selection of all equipment will do the right job for the client. Too often equipment is installed without proper detail to the actual running costs. A client may have selected an air heating unit which will do the job effectively but they will not be aware that the motor power to run it will be exorbitant,



John D. Sullivan, Air Conditioning Division Manager.



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# WORCESTER DANESMOOR

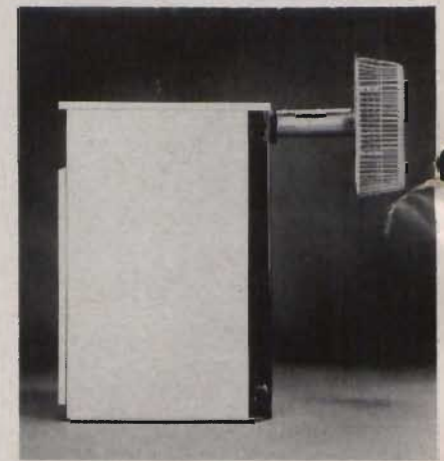
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*Conventional Flue*



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whereas for an initial extra cost at the time of installation, the economy of running it afterwards will pay for itself within a couple of years."

# Complete Range

The complete range of equipment from the Air Conditioning Division of Hevac is as follows:—

## York

York packaged liquid cooling systems offer significant advantages over field-erected systems; these packages comprise compressor, drive motor, condenser and cooler with all necessary auxiliaries, control and safety devices constructed as a single unit, factory built and tested and requiring the minimum of labour for connection on site prior to commissioning. For land and marine applications providing liquid cooling capacities from 25 to 3,000 tons refrigeration.

**Turbopak Liquid Cooling Systems** — Occupying a minimum of floor space in the plant room, the Turbopak packaged liquid cooling system comprises a York single stage Turbomaster centrifugal compressor with drive motor, electronic control centre and the exclusive Turboguard purge unit mounted on condenser and cooler combined in a single shell. Available in a range of sizes with capacities from 90 to 1,000 tons refrigeration.

**Reciprocating Packaged Liquid Cooling Systems** — Comprising reciprocating compressor and drive motor with condenser and cooler, auxiliaries, controls and safety devices mounted as a unit on a single fabricated base, these packaged liquid chilling systems require only minimum labour on site for connection prior to commissioning.

Technical specification of some of the units are as follows:—

**Series A, AS, CS** — Nominal air flows from: 1,700 to 100,000 M<sup>3</sup>/h (1,000 to 60,000 cfm). The units offer complete flexibility with a choice of chilled water or DX cooling coils, hot water or steam heating coils, high and low pressure fans and a full range of accessory sections for humidifying air mixing and filtering. Also available, a range of induction units for 2- 3- or 4-pipe systems with air side and/or water side control. Primary air flow 50 to 300 M<sup>3</sup>/h (30 to 175 cfm). Fan coil conditioners, floor, wall, ceiling or fully recessed models.

**Series FC** — Nominal air flows from: 340



*Paul Brennan, Stock Controller, and Brendan Gallagher, Air Conditioning Representative checking an order form.*

to 3,400 M<sup>3</sup>/h (200 to 2,000 cfm). York fan coil units are available in a variety of sizes and styles for installation in new or existing buildings. The units can be supplied with heating or cooling coils or with electric heat.

**High and Low Velocity Variable Volume Air Systems** — Nominal air flows from: 35 to 4,000 M<sup>3</sup>/h (30 to 2,400 cfm), York VAV systems offer a complete product line, including multiple air outlet control units, supply air diffusers and combination terminal units. High velocity systems have self-contained duct pressure controls with choice of integral diffuser mounted thermostat or remote room thermostat.

**L.C.H.A.** — York's line of UK produced quiet air cooled liquid chillers incorporate low silhouette design and are available from: 20 to 45 tons nominal cooling capacity.

**L.C.H.H.A.** — The latest York series L.C.H.H.A. are duplex air-cooled packaged liquid chillers for outdoor installation — five sizes are available with nominal capacities from: 77 to 152 TR.

**Pathfinder and Sunline** — York rooftop self-contained air cooled air conditioners for roof or ground location provide cooling capacities from 3½ tons to 40 tons. Various heating accessories are also available. Larger Sunline models incorporate Multi-zoning capability.

**Champion IV** — The latest York quiet commercial split system air conditioning from 2 tons to 4 tons cooling capacity. Many new features are incorporated in both condensing and blower sections.

**Champion Split Systems** — Produced in York's UK factory at Basildon in Essex Champion Split System air conditioning is available from 5 to 45 tons cooling. Low silhouette weather-proof condensing sections give quiet performance under all conditions.

**Room Air Conditioners** — York room air conditioners are available from 9000 Btu's/hr to 29,000 Btu's/hr, and with electric heating accessory on most models.

## Denco Miller

Denco Miller manufacture the most comprehensive range of computer room and close control airconditioning on the market today.

The company specialises in the manufacture of sophisticated air conditioning equipment for all applications with special emphasis on computer installations.

In the sphere of compressed air drying a recent survey has shown that Denco Miller is the world's largest manufacturer of equipment for the drying and processing of gas, compressed air and other industrial refrigeration plants.

The Computaire mark 4S has two exciting new dimensions in computer operating efficiency. Outwardly Computaire Mk 4S is only 200 mm in depth and yet has a maximum capacity of 36,000 Btu's/hr. This super slim dimension allows the unit to be mounted completely unobtrusively within the computer room.

The Computaire is by far the most popular room air conditioner marketed by Denco Miller and has been on the market in its present form for the last twelve years. It is also the slimmest unit in the world today.

Inwardly, Computaire Mk 4S breaks into a new dimension of efficiency in close control computer environment. That means both greater and faster control over heating, cooling, humidification, de-humidification and fine filtration on either a comprehensive or zoned basis.

To ensure the desired return of capital outlay, the computer needs to operate in a precision environment. Computaire Mk 4S fulfills this capacity by satisfying every demand.

Computaire Mk 4S can be supplied with either chilled water or direct expansion coils.



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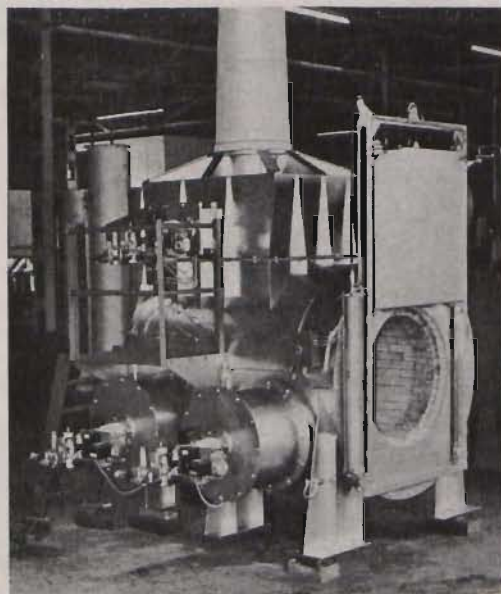
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## SOLVENTS AND SLUDGES



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## MUNICIPAL INSTALLATIONS





Air distribution can be via horizontal discharge section with air diffuser or via duct extension to ventilated ceiling.,

DM5 has a big cooling capacity capable of up to a maximum of 100,000 Btu's/hr in total and yet it is sufficiently flexible and modular in design to allow installation either in the conditioned area or in an adjacent plant room from which the air can be ducted.

When Denco first considered developing a large capacity close control system of air conditioning, capable of dealing with the high sensible heat loads found in large computer complexes and control rooms, they realised that many of their revolutionary ideas could result in a totally new concept for plant of this capacity and duty.

The concept of DM15 was to develop a unit which was flexible in its size and installation, was modular and easily extendable, and yet was capable of handling massive maximum cooling duty of up to 250,000 Btu's/h. The DM15 meets all of these requirements.

## Solevent Ventec

Solevent Ventec is the largest European company specialising in the construction of industrial fans, particularly for industrial ventilation and airconditioning installations.

This position has been widely due to the important efforts in the field of Aeraulic accustic and technological researches achieved at their technical centre in Chalon-Sur-Saone.

Two Solevent Ventec fans out of every three are installed outside France. This equipment is either manufactured in one or two of their plants at Lyons and Chalon-Sur-Saone or in local production facilities existing on three continents.

Typical centrifugal fan — The Centrepal range of centrifugal fans is of rubber construction, made of welded mild steel and are available in 20 diameters (from 200 mm. to 2000 mm.) and permit volumes of air up to 500,000 M<sup>3</sup>/hr. The Mistral Range in locked formed galvanised mild steel are particularly well adapted to medium sized installations. The range of axial flow-fans can be direct drive or belt driven and is available in 16 impeller sizes from 400 mm. through to 1,600 mm.

## Wesper

50 years of constant progress had led Wesper to its present reputation level that of being amongst the very first European manufacturers of heating and

airconditioning equipment.

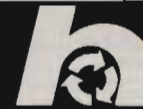
The origin of this reputation was the control of fluid mechanics and heat transfer. Wesper manufacturing activity is therefore, strongly orientated towards the production of coils and mechanical parts and sheet metal processing.

The broad range of sizes and the great presentation of the Wesper products offer the right answer for most heating and airconditioning installations. We detail hereunder the leading ranges.

Unit heaters — for water, steam and electricity — 30 models — 10,000 to 250,000 K/cals /hr. — very low noise level. These units may be horizontal or vertical downflow with single or double deflection on horizontal, forward deflection on downflow together with a very wide range of accessories for handling re-circulation, fresh air, etc. Roof Cowl, wall louvres etc are also available.

Fan coil units seven sizes and 28 models — 200 to 1,400 M<sup>3</sup>/Hr. — one or two coils — very low noise level — very aesthetic

Airhandling units — for heating cooling humidifying, filtering, ventilation — 17 models — 1,000 to 100,000 M<sup>3</sup>/Hr. — modular construction slide out components.


**Hevac Limited — SERVICE DIVISION**

# Speedy Response with Special Attention to Detail

Tony Armstrong may no longer be responsible for the maintenance of 20,000 ton ships in the Middle East but he is firmly at the helm of the Hevac Service Department and has very positive attitudes as to what course he intends to steer as the Manager, Service Division.

Tony served his apprenticeship as a fitter before he became a marine engineer, eventually returning to Dublin to take up the position of service engineer with a heating company. A short spell with C.P.C. Continental Hotels, as factory maintenance engineer, and then he joined Hevac in 1968 as a service engineer, gradually rising within the company to his present position as Service Manager.

As Service Manager he is responsible for the day to day administration of the department and says "I have to ensure an effective and satisfactory back-up service to our sales efforts, covering the whole range of products". This entails the service team

paying speedy attention to customer requirements in the form of service calls, spare parts supply and technical information. It also means ensuring that all in-warranty calls are processed in event of breakdown on all Hevac equipment.

A team of fully trained service engineers are directly employed by Hevac Ltd and they in turn are supported by a network of appointed service engineers throughout the whole country, thus ensuring on the spot attention regardless of the area.

As a follow up to Hevac's in-warranty service they find that they are increasingly being called upon to continue servicing equipment after the guarantee period and they have now entered the field of maintenance contract work which will embrace the whole country. "This new venture," Tony says, "is the direct result of customer concern regarding the high cost of operating boiler burner units and the service is now available to ensure that our customers will

## Cliref

Cliref was founded in 1971 with industrial technical and commercial know-how from the Brancher Group. Cliref specialises in Liquid Chilling equipment. Air-Cooled and Water-Cooled Condensing Units and special DX and liquid cooling applications for the refrigeration Industry.

Since Cliref's inception it's technicians mainly focused their researches and surveys on Liquid Chilling Equipment Condensing Units and Water to Water Heat pumps, bearing in mind the problems of comfort, heat reclaim and the fight against pollutions. In 1973 Cliref transferred its works and Head Office to new buildings required by the steady development of its manufacturing programme. Again in early 1978 the size of the factory was doubled to accommodate the increased manufacturing capacity required.

The comprehensive Cliref range covers all applications in addition to incorporating flexibility within the design function to make all units adaptable, depending on the particular requirement.



# YORK



# Division of Borg-Warner Ltd.

(Head Office)

**North Circular Road, London, NW2 7AU**

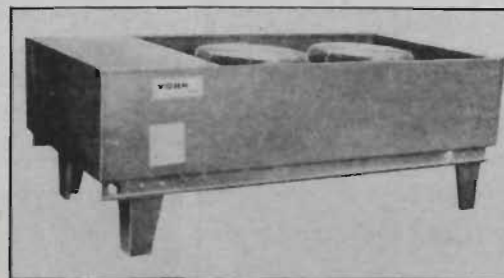
Telephone: 01-452 5411 Grams: Yorkair London Telex 22181

Works: Basildon, Essex. Branches: Birmingham, Glasgow, Manchester, Newcastle upon Tyne

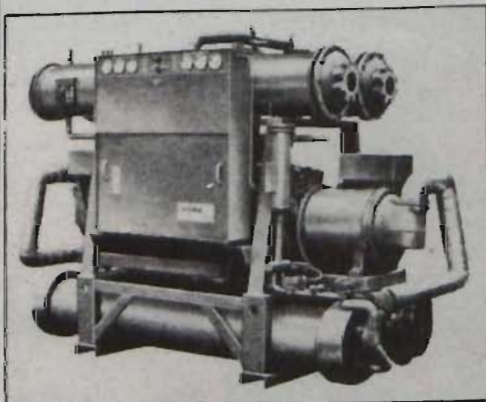
Manufacturers of  
refrigeration  
and air-conditioning  
plant and equipment



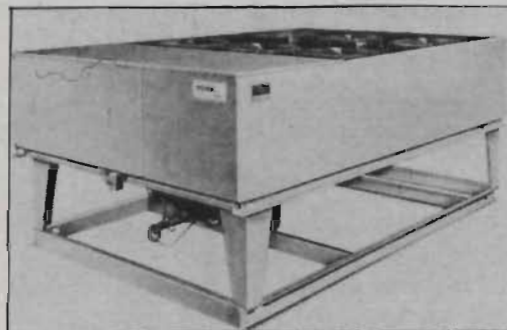
YORK Champion IV outdoor condensing unit.



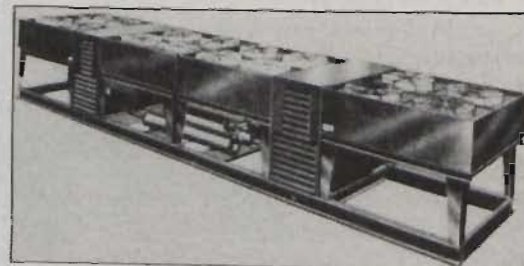
YORK Champion CA 07L air cooled condensing unit for outdoor installation.



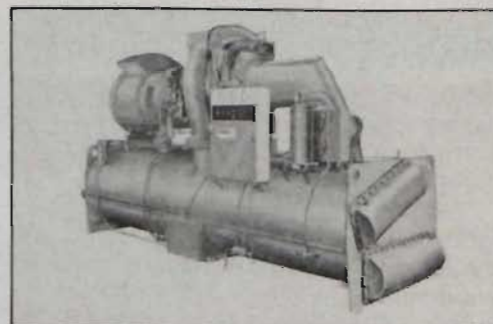
YORK L.C.H.H. dual control circuit reciprocating liquid chiller.



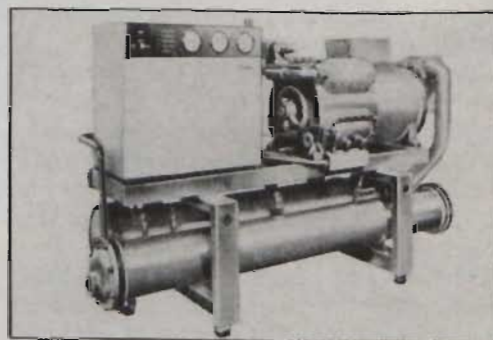
YORK L.C.H.A. air cooled packaged liquid chiller for outdoor installation.



YORK series L.C.H.H.A. air cooled packaged liquid chiller for outdoor installation.



YORK Turbopak single stage centrifugal liquid chiller hermetic (HT). Nominal capacities from 90 to 640 tons.



YORK L.C.H. semi-hermetic reciprocating packaged liquid chiller.



Available from

## Hevac Limited

Heating Ventilating and Air Conditioning

Head Office:—Lomond Avenue, Fairview, Dublin 3.

Phone: 373796/374646 Telex: 5827 Grams: Hevac.



achieve utmost economy."

At present there are approximately eleven Hevac appointed service engineers throughout the country but with the emphasis on increased maintenance contract work Tony foresees this number having to be increased considerably in the near future.

### ONLY THE BEST

Hevac customers can be assured that the service department offers only the best of technical skill and knowledge. To this end Tony travels extensively to all the agencies' factories bringing himself up to date with the latest designs and product developments. This knowledge is then passed on to all the service department personnel. Hevac also boast a fully equipped testing centre within their modern workshop which was built exclusively by their own engineers to ensure that only the highest standards of workmanship are achieved.

A comprehensive range of spare parts covering the full range of boilers, oil burners, incinerators, air-heating equipment, etc, is maintained in the company's stores and as far as possible Hevac maintain spare parts for many obsolete units, a fact not too well known in the trade — outside of Hevac's own customers.

### VERBAL TECHNICAL SERVICE

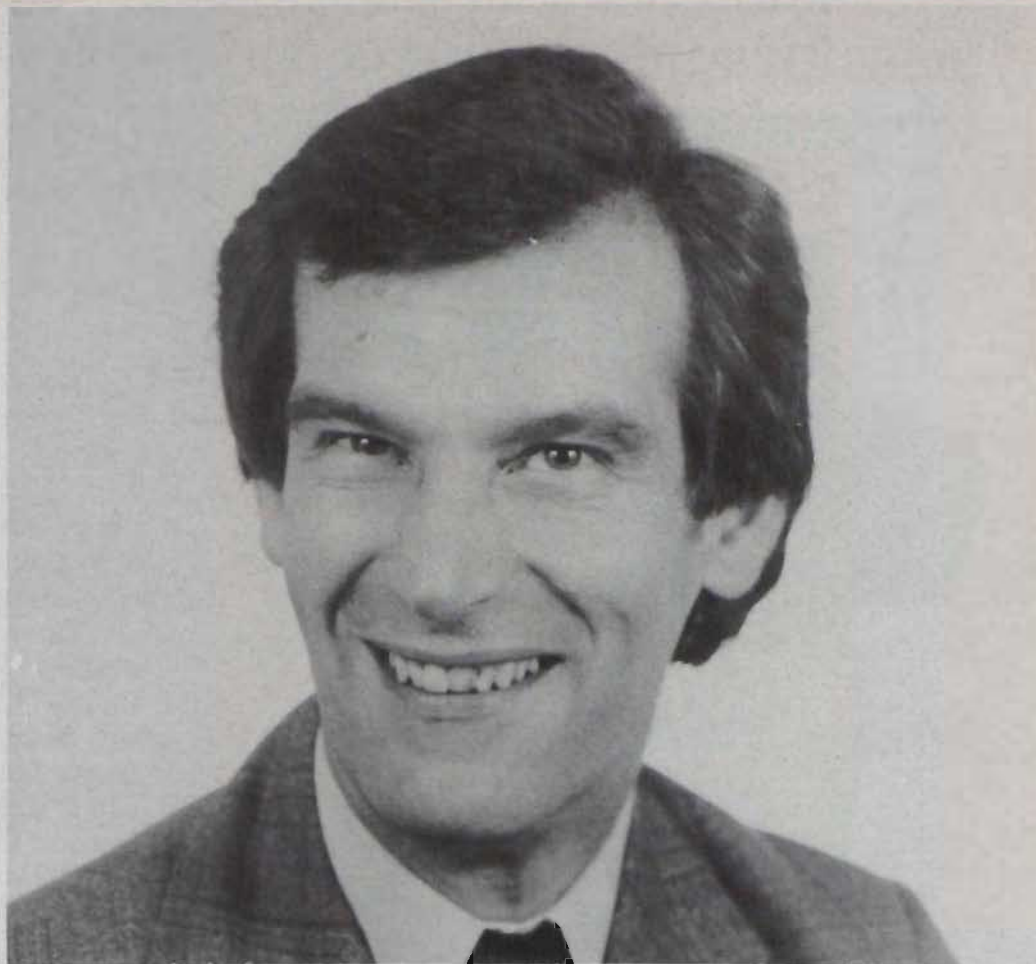
Customers and engineers can also avail of Hevac's "verbal technical service" as Tony explains, "they can enquire over the phone and we are able to explain in detail any problem that will help them in turn if they have

a problem."

With the increasing range of products now available from Hevac they have taken the necessary steps to ensure customer satisfaction of having two specialists to deal with the domestic and industrial sectors. Des Prendergast is responsible for the domes-

tic and semi-industrial equipment and Sid Boalch is the service engineer responsible for heavy industrial equipment.

Kevin Byrne makes up the rest of Tony's team as services assistant, he is responsible for logging all service calls and maintaining the services stores.



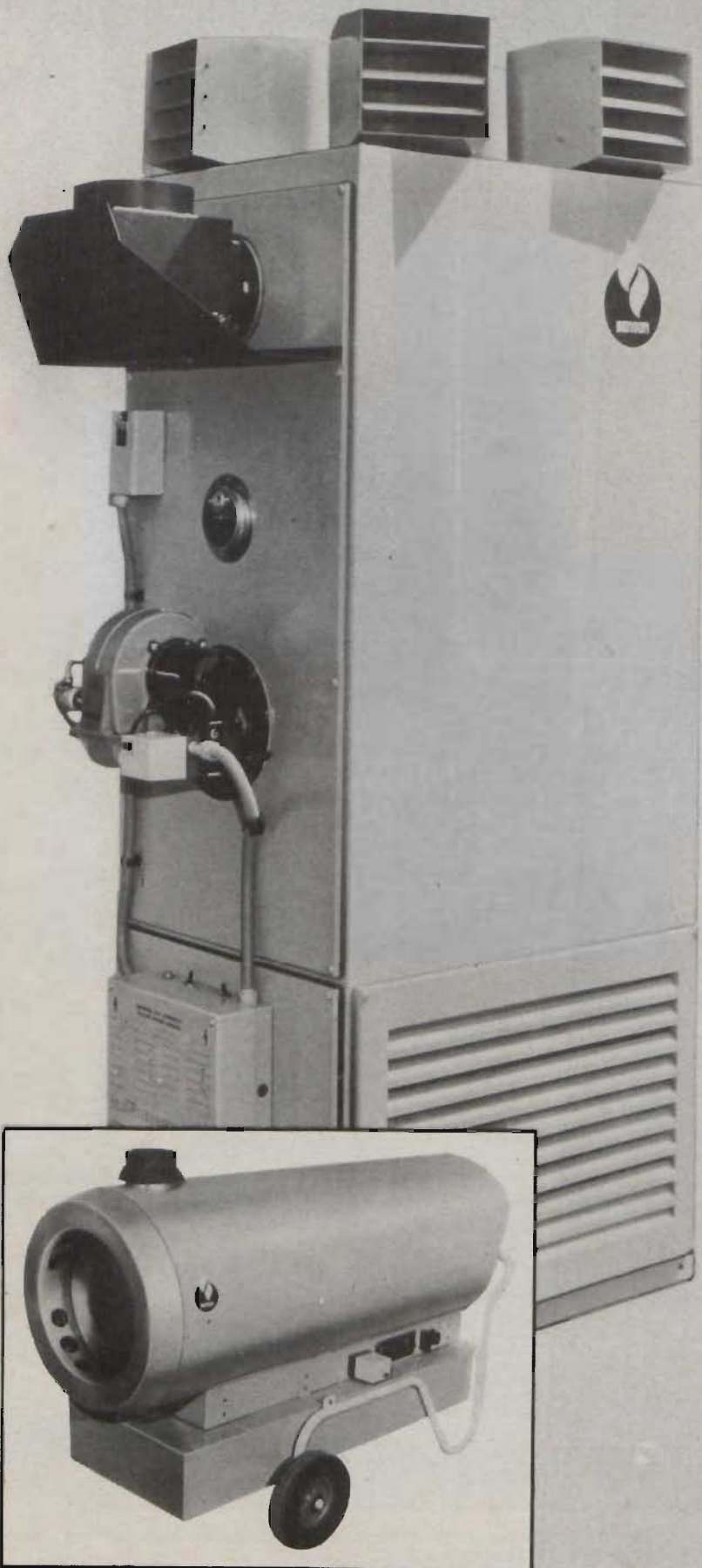
*Brian Ward, who has just been appointed Stores and Transport Manager.*



*Left: Frank Ryan and Bob Cameron at the well stocked trade counter which has become a major feature of Hevac's success story, and right: Kevin Byrne, Spares and Services Division assistant, checks stocks.*



**Warm air will circulate through many industrial areas today, reaching a comfortable working temperature. Future outlook—continuing comfortable.**



Nu-Way Benson are experts in industrial air heating, manufacturing a range of oil and gas-fired heaters from 150,000 to 1,500,000 Btu/Hr which can be used to heat all types of industrial premises efficiently and economically.

No matter what the size or shape of your building, Nu-Way Benson have the answer.

Depending on the type of construction—and the purpose for which it is to be used, Nu-Way Benson experts will determine exactly what your heating requirements are, and advise on the complete installation.

Which makes forecasting of productivity that much simpler.

Use Nu-Way Benson know-how. It saves you money. It keeps the labour force happy.

So send for the experts.



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We're the Air Heating Authority.

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To: Head Office:— Lomond Avenue, Fairview, Dublin 3. Phone 373796/374646. Telex: 5827. Grams; Hevac.  
Please send me full details of your range of industrial heaters and your heating advisory service.

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I H & V N 11/78



# The plus factors of the **DM10 system**

The Denco Miller DM10 system is a completely new range of close control air conditioning units incorporating all the features associated with sophisticated installations specifically designed for close environmental control, meeting the precise demands of today's industry in respect of filtration, temperature and humidity control, noise ratings, reliability and serviceability.

The basic DM10 unit consists of a control cabinet and one cooling module, having a nominal capacity of 35kW's. This capacity can be doubled or trebled by the simple addition of further cooling modules to form either a DM20 or DM30, thus covering all medium to large applications.

All modules give flexibility of upflow or downflow configuration. Air return may be from front, top or base of the module. Units may be installed along walls, free standing, back to back, together or separately.

Other plus factors include ease of installation, all modules consist of demountable sections for ease of access. Lift off panels or doors make servicing simple, irrespective of situation. Denco Miller's vast experience—but why go on...

The new DM10 brochure will give you all the details about dimensions, capacity range, coils, compressors, condensers, noise levels, energy conservation, colour schemes and a lot more. Send for your copy today to meet the environmental demands of tomorrow.

## Denco Miller Limited



A D. Enquiries to  
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Heating Ventilating and Air Conditioning

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Phone: 373796/374646 Telex: 5827 Grams Hevac







# HEVAC LTD.

## Product Range

### Industrial

Allen Ygnis Packaged Steam/Hot Water Boilers 100,000 to 25 million.  
Chapee Cast Iron Hot Water Boilers 600,000 to 4.4 million Btu/hr.  
Mather & Platt Unit Heaters 12,000 to 300,000 Btu/hr.  
Nu-Way Pressure Jet Oil Burners 50,000 to 50 million Btu/hr.  
Nu-Way Benson Space Heaters 200,000 to 1.5 million Btu/hr.  
Rio Cast Iron Boilers 340,000 to 712,000 Btu/hr.  
Selkirk Metalbestos Twin Wall Sectional Chimneys 5" to 36".  
Universal Incinerators 50 lb/hr to 500 lb/hr. Special models for heat recovery etc. available.

### Air Conditioning

Air-Handling Units — Wesper — Range 1000 M<sup>3</sup>/hr to 100,000 M<sup>3</sup>/hr.  
Airconditioners — packaged — rooftop — York Airconditioning. Range 3 to 35 tons Refrigeration.  
Airconditioners — split — packaged York Airconditioning. Range 1½ tons to 35 tons.  
Airconditioners — through the wall or window — Airwell. Range 5000 Btu's/hr to 24,000 Btu's/hr.  
Airconditioners split, packaged (small) Airwell. Range 9,400

Btu's/hr to 18,000 Btu's/hr.  
Fan Coil Units — Wesper — Range 130M<sup>3</sup>/hr to 1000 M<sup>3</sup>/hr.  
Condensing Units (air-cooled) — York Airconditioning. Range 1½ to 45 tons.  
Condensers — Air-cooled York Airconditioning. Range 3½ to 250 tons. Refrigeration (Low noise level units available).  
Chillers — Aircooled — York Airconditioning. Range 5 to 180 tons.  
Chillers — Water-cooled — York Airconditioning. Range 5 to 180 tons.  
Chillers — Centrifugal — Water-cooled (Special applications for the dairy industry) (36 Water) Range 90 tons to 1,300 tons.  
Chillers — Water-cooled — Centrifugal, York Airconditioning. Range 90 tons to 8,500 tons.  
Computer room Airconditioning equipment — Denco Miller. Range 1½ tons to 30 tons.  
Axial flow Fans — Seevent Ventec. Range 1000 M<sup>3</sup>/hr to 25,000 M<sup>3</sup>/hr. Pressure from 10 to 100mm.  
Fans — Centrifugal Solevent Ventac. Range 3000 M<sup>3</sup>/hr to 250,000 M<sup>3</sup>/hr.  
Heating and cooling coils (DX and chilled water) Wesper — complete range.  
Induction and Variable Volume Units — York Airconditioning. Primary Airflow 50 to 300 M<sup>3</sup>/hr. Induction ratios up to 6 : 1.  
Low Velocity Variable Air Volume Units — Range 12M<sup>3</sup>/hr to 1,400 M<sup>3</sup>/hr.  
Unit Heaters — Steam and Hot Water — Wesper Range 4,700 Kcal/hr to 260,000 Kcal/hr.  
Water Re-cooling towers — Wesper Capacities from 70 gallons per minute through to 1,600 gallons per minute.  
Liquid Chillers special applications.  
Low temperature brine to minus 40°C.

### Domestic

Rio Cast Iron Boilers rated 64-265,000 Btu's/hr.  
Nu-Way Pressure Jet Burner rated 60-200,000 Btu's/hr.  
Worcester Danesmore Kitchen Boiler 50-250,000 Btu's/hr.  
Piroil Pressure Jet Burner 60-300,000 Btu's/hr.  
Steel Panel Radiators.  
Superad Fan Convectors from 7,000-15,000 Btu's/hr.  
Cast Iron Colum Radiators.  
Smiths Time Controls — Time Clocks, Programmers, Thermostats.  
Virax Tools — Threading Machines, Hand-Threaders, Wrenches, Cutters.  
Flue Pipe and Accessories from 5" to 8".  
Gunbarrell Pipe from ½" to 2".  
Malleable Iron Fittings & Valves from ½" to 2".  
Copper Pipe, Thin Wall and Soft Drawn Coils.  
Compression Fittings 3/8" to 2" also 10mm.  
Attic Insulation 75mm and 100mm Thick — Domestic and Structural.  
Pipe Insulation for G.B. and Copper ½" to 4".  
Satchwell Controls — Minivalves and Thermostats.  
Sealed Systems Equipment.  
Gercrosse Back Boilers from 16" to 20" also slow burning fires to suit.  
Stainless Steel Pipe ½" to 1¼".  
Oil Storage Tanks Capacity 300 and 600 Gallon Rectangular.  
Galvanised Tanks 10 to 100 Gallon.  
Copper Cylinders — Direct and Indirect.  
Circulating Pumps.  
Radiator Valves — for G.B. and Copper also Thermostatic Controls.  
Ancillary Equipment including, Fire Valves, Filters, Asbestos Cord, P.T.F.E. Tape, Tank Gauges, Stabilisers, Flax, Denso Tape.





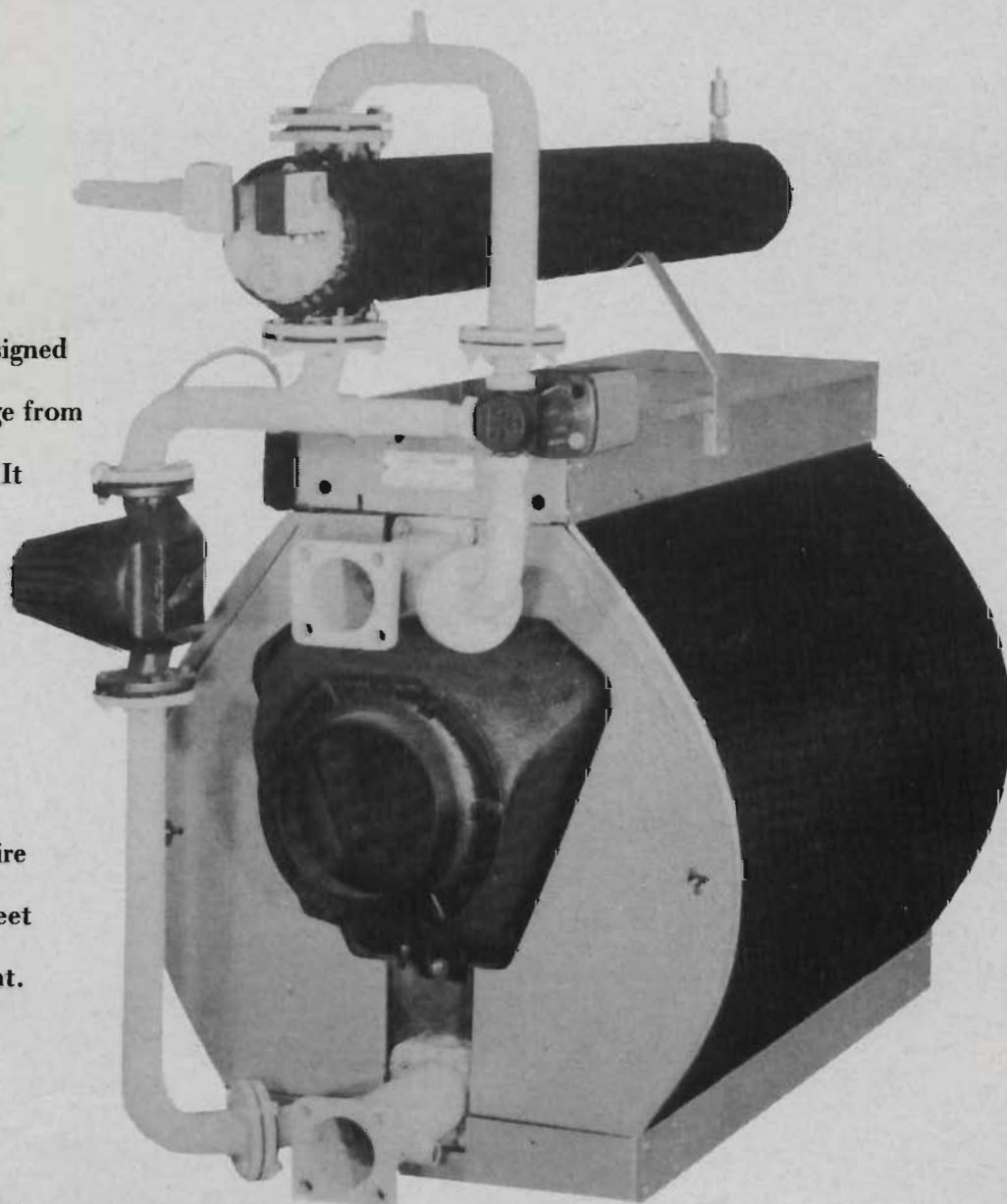
# CHAPPEE



## INTRODUCE THEIR NEW E.C.S. RANGE OF HEAT EXCHANGERS

The ECS unit has been especially designed to fit the Chappee CM 3P boiler range from 600,000 Btu/h to 1.8 million Btu/h. It delivers domestic hot water from an instantaneous heat exchanger with hot water temperature control.

The ECS unit is available in two sizes, which allows a suitable exchanger to be fitted across the entire boiler range, making it possible to meet every domestic hot water requirement.



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